

Health Indicators and Risk Estimates by
Community Health Assessment Geographic Area
&
Local Health Departments

Michigan Behavioral Risk Factor Survey

1998-2002

Selected Tables

Division of Epidemiology Services
Bureau of Epidemiology
Michigan Department of Community Health

Preface

The Michigan Behavioral Risk Factor Survey (BRFS) is a statewide, random-digit dialed telephone survey of adult residents aged 18 years and older. State-specific, population-based prevalence estimates and confidence interval limits of health behaviors and chronic conditions are calculated based on this survey. Region-specific, and local health department-specific prevalence rates can also be computed if sample size allows.

A combined 1998-2002 Michigan BRFS dataset maximized the sample size to calculate prevalence estimates by Community Health Assessment Region (CHAR) and Local Health Department (LHD). The 1998-2002 estimates, which are presented in the following tables, have been weighted to adjust for the probabilities of selection, and a post-stratification weighting factor that adjusts for the distribution of Michigan adults by age, sex, and race/ethnicity at the state level. Data that were only collected every other year, such as high blood pressure, and cholesterol also contain data from the year 1997, but this is noted in the table. No additional weighting factors have been computed for the regional or local health department level.

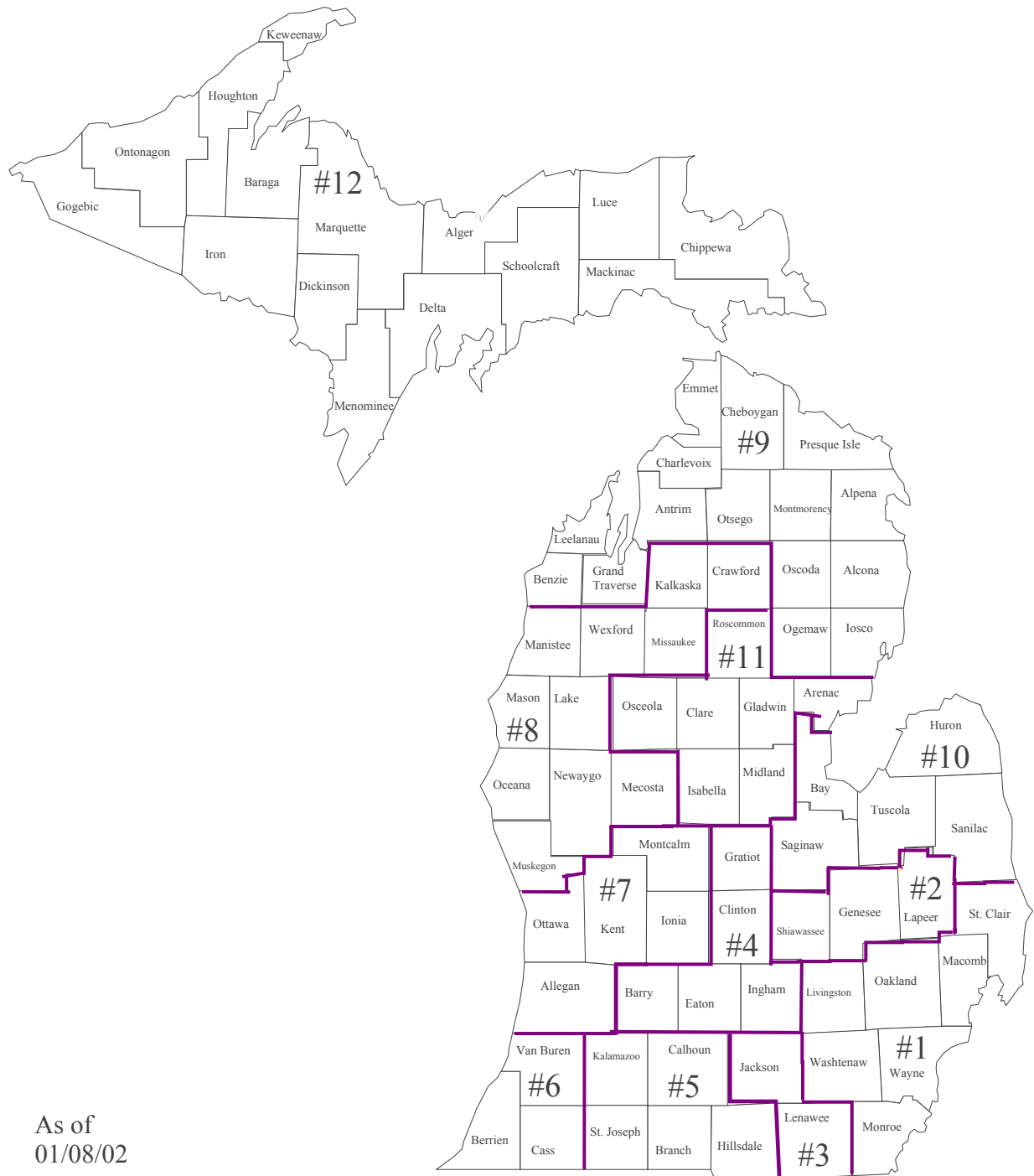
If you have any questions about these data, please contact Michelle L. Cook, MDCH at CookM1@michigan.gov.

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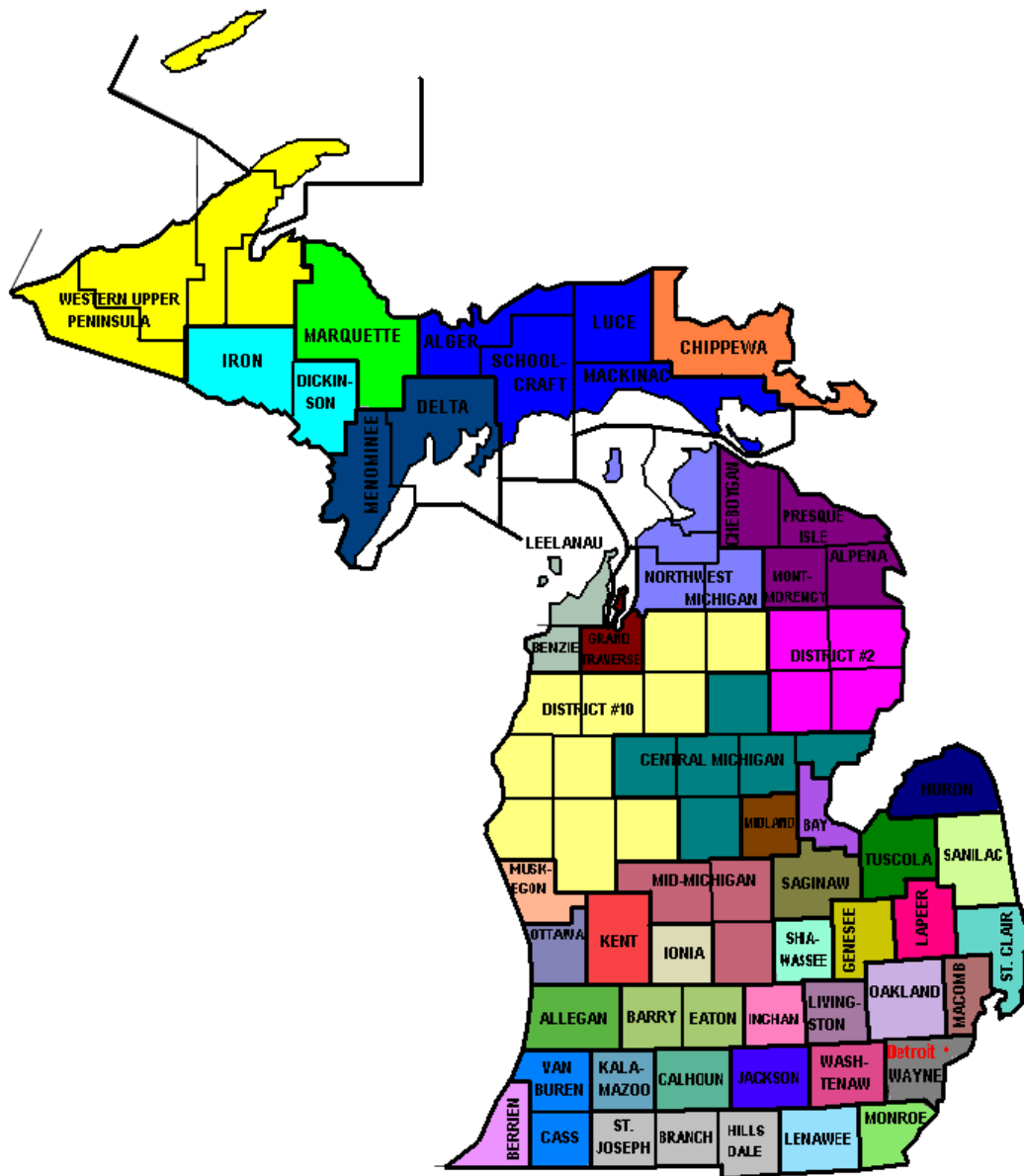
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Community Health Assessment and Improvement Region State of Michigan



As of
01/08/02

Local Health Departments State of Michigan



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Table 1: Health Status by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% \pm 95% Confidence Intervals)	
Geographic Area	General Health, Fair or Poor^a
Michigan Total	13.8 \pm 0.6
Region 1	14.1 \pm 0.9
Livingston	6.7 \pm 3.2
Macomb	12.4 \pm 2.2
Monroe	10.6 \pm 4.9
Oakland	11.6 \pm 1.6
St. Clair	14.8 \pm 4.5
Washtenaw	8.8 \pm 2.8
City of Detroit	22.0 \pm 2.8
Wayne exc. Detroit	14.3 \pm 2.0
Region 2	13.5 \pm 2.4
Genesee	14.2 \pm 3.0
Lapeer	12.1 \pm 3.0
Shiawassee	10.8 \pm 5.2
Region 3	12.4 \pm 3.4
Jackson	14.4 \pm 4.8
Lenawee	9.7 \pm 4.8
Region 4	11.2 \pm 2.0
Barry-Eaton	11.6 \pm 4.2
Mid-Michigan ^b	17.1 \pm 4.4
Ingham	9.9 \pm 2.5
Region 5	13.6 \pm 2.4
Branch-Hillsdale-St. Joseph	14.7 \pm 4.6
Calhoun	17.9 \pm 5.2
Kalamazoo	10.0 \pm 3.1

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Table 1 Cont'd	
Geographic Area	General Health, Fair or Poor^a
Michigan Total	13.8 ± 0.6
Region 6	12.0 ± 3.0
Van Buren-Cass	12.3 ± 4.5
Berrien	11.8 ± 4.0
Region 7	12.0 ± 1.5
Allegan	9.1 ± 3.9
Ionia	15.9 ± 7.9
Kent	12.5 ± 1.9
Mid-Michigan ^b	17.1 ± 4.4
Ottawa	8.0 ± 2.9
Region 8	14.3 ± 2.7
District #10	16.4 ± 3.5
Muskegon	11.4 ± 4.0
Region 9	13.9 ± 2.5
District #2	21.4 ± 6.7
District #4	16.4 ± 5.6
Northwest Michigan	11.6 ± 4.8
Benzie-Leelanau	7.1 ± 6.0
Grand Traverse	10.1 ± 4.5
Region 10	16.0 ± 2.7
Bay	19.8 ± 6.6
Huron	11.3 ± 7.0
Saginaw	17.3 ± 4.2
Sanilac	10.4 ± 7.0
Tuscola	13.5 ± 6.3
Region 11	16.4 ± 3.1
Central Michigan	19.8 ± 4.3
Midland	9.6 ± 3.6

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Table 1 Cont'd	
Geographic Area	General Health, Fair or Poor^a
Michigan Total	13.8 ± 0.6
Region 12	16.3 ± 3.1
Luce-Mackinac-Alger-Schoolcraft	18.3 ± 8.8
Western Upper Peninsula	21.3 ± 7.6
Delta-Menominee	13.8 ± 6.2
Chippewa	22.8 ± 10.6
Dickinson-Iron	14.3 ± 7.9
Marquette	10.5 ± 5.7
^a Proportion of respondents who said their health, in general, was fair or poor. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 2: Health Care Coverage Among Adults 18 - 64 Years of Age by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% \pm 95% Confidence Intervals)	
Geographic Area	No Health Care Coverage^a
Michigan Total	11.1 \pm 0.6
Region 1	10.6 \pm 1.0
Livingston	9.3 \pm 4.7
Macomb	10.0 \pm 2.5
Monroe	8.1 \pm 5.4
Oakland	7.5 \pm 1.8
St. Clair	9.1 \pm 4.2
Washtenaw	8.4 \pm 3.0
City of Detroit	17.4 \pm 3.0
Wayne exc. Detroit	10.3 \pm 2.1
Region 2	11.6 \pm 2.7
Genesee	14.0 \pm 3.5
Lapeer	5.6 \pm 3.9
Shiawassee	5.3 \pm 5.1
Region 3	9.6 \pm 3.5
Jackson	10.5 \pm 4.8
Lenawee	8.7 \pm 5.1
Region 4	7.5 \pm 2.0
Barry-Eaton	7.8 \pm 4.3
Mid-Michigan ^b	8.8 \pm 3.6
Ingham	7.6 \pm 2.8
Region 5	12.3 \pm 2.9
Branch-Hillsdale-St. Joseph	15.1 \pm 5.8
Calhoun	15.2 \pm 6.1
Kalamazoo	8.3 \pm 3.4

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Table 2 Cont'd	
Geographic Area	No Health Care Coverage^a
Michigan Total	11.1 ± 0.6
Region 6	13.0 ± 4.2
Van Buren-Cass	8.3 ± 4.6
Berrien	16.9 ± 6.4
Region 7	8.8 ± 1.5
Allegan	10.1 ± 5.3
Ionia	5.7 ± 4.5
Kent	9.9 ± 2.0
Mid-Michigan ^b	8.8 ± 3.6
Ottawa	5.3 ± 2.7
Region 8	15.1 ± 3.4
District #10	13.3 ± 3.8
Muskegon	17.4 ± 5.9
Region 9	16.5 ± 3.5
District #2	19.1 ± 8.1
District #4	20.2 ± 7.8
Northwest Michigan	18.6 ± 7.9
Benzie-Leelanau	6.6 ± 5.7
Grand Traverse	12.3 ± 5.8
Region 10	8.8 ± 2.4
Bay	6.6 ± 4.0
Huron	2.3 ± 3.5 ^c
Saginaw	10.3 ± 4.0
Sanilac	13.1 ± 9.5
Tuscola	8.6 ± 6.5
Region 11	12.6 ± 3.5
Central Michigan	16.2 ± 5.1
Midland	6.0 ± 3.3

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Table 2 Cont'd	
Geographic Area	No Health Care Coverage ^a
Michigan Total	11.1 ± 0.6
Region 12	16.6 ± 3.9
Luce-Mackinac-Alger-Schoolcraft	27.1 ± 12.6
Western Upper Peninsula	17.5 ± 8.0
Delta-Menominee	10.9 ± 5.9
Chippewa	20.4 ± 10.9
Dickinson-Iron	13.1 ± 11.6
Marquette	15.3 ± 9.7
^a Proportion of respondents ages 18-64 who said that they did not have any kind of health care coverage. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^c Confidence interval includes 0.	

Table 3: Weight Status by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% \pm 95% Confidence Intervals)			
Geographic Area	Obese ^a	Overweight ^b	Not Overweight ^c
Michigan Total	23.9 \pm 0.8	36.8 \pm 0.9	39.3 \pm 0.9
Region 1	23.9 \pm 1.2	36.0 \pm 1.4	40.1 \pm 1.4
Livingston	19.1 \pm 5.6	32.3 \pm 6.7	48.6 \pm 7.2
Macomb	22.6 \pm 3.0	34.6 \pm 3.3	42.8 \pm 3.5
Monroe	23.7 \pm 6.4	39.2 \pm 7.5	37.2 \pm 7.3
Oakland	20.1 \pm 2.2	35.5 \pm 2.7	44.5 \pm 2.8
St. Clair	24.1 \pm 5.9	35.0 \pm 6.5	40.9 \pm 6.7
Washtenaw	18.2 \pm 3.9	33.4 \pm 4.7	48.4 \pm 5.0
City of Detroit	32.4 \pm 3.3	37.2 \pm 3.4	30.4 \pm 3.2
Wayne exc. Detroit	24.3 \pm 2.6	37.1 \pm 2.9	38.6 \pm 2.9
Region 2	24.6 \pm 3.1	38.3 \pm 3.6	37.0 \pm 3.5
Genesee	26.1 \pm 3.8	37.1 \pm 4.3	36.9 \pm 4.2
Lapeer	21.7 \pm 7.4	38.5 \pm 9.3	39.7 \pm 9.5
Shiawassee	19.8 \pm 7.1	45.1 \pm 9.2	35.1 \pm 9.0
Region 3	26.8 \pm 4.7	36.8 \pm 5.1	36.4 \pm 5.2
Jackson	28.2 \pm 6.3	35.5 \pm 6.5	36.3 \pm 6.8
Lenawee	24.9 \pm 7.0	38.5 \pm 8.0	36.6 \pm 8.0
Region 4	22.3 \pm 2.9	35.4 \pm 3.4	42.3 \pm 3.5
Barry-Eaton	23.3 \pm 5.7	36.5 \pm 6.6	40.3 \pm 6.7
Mid-Michigan ^d	25.3 \pm 5.3	36.2 \pm 5.9	38.6 \pm 5.9
Ingham	22.4 \pm 4.0	32.6 \pm 4.7	45.1 \pm 5.0
Region 5	26.5 \pm 3.3	38.0 \pm 3.5	35.6 \pm 3.4
Branch-Hillsdale-St. Joseph	33.6 \pm 6.6	32.9 \pm 6.0	33.6 \pm 6.0
Calhoun	31.2 \pm 6.4	40.4 \pm 7.0	28.4 \pm 6.1
Kalamazoo	18.4 \pm 4.1	40.1 \pm 5.5	41.5 \pm 5.4
Region 6	22.4 \pm 4.1	37.6 \pm 5.0	40.1 \pm 5.1
Van Buren-Cass	22.2 \pm 6.2	36.8 \pm 7.2	41.0 \pm 7.5
Berrien	22.5 \pm 5.6	38.2 \pm 6.9	39.3 \pm 7.0

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Table 3 Cont'd			
Geographic Area	Obese ^a	Overweight ^b	Not Overweight ^c
Michigan Total	23.9 ± 0.8	36.8 ± 0.9	39.3 ± 0.9
Region 7	21.3 ± 2.0	37.2 ± 2.4	41.5 ± 2.4
Allegan	26.8 ± 6.6	34.6 ± 7.0	38.5 ± 7.3
Ionia	23.5 ± 8.5	38.7 ± 10.0	37.7 ± 10.1
Kent	19.8 ± 2.4	37.3 ± 3.0	42.9 ± 3.0
Mid-Michigan ^d	25.3 ± 5.3	36.2 ± 5.9	38.6 ± 5.9
Ottawa	17.1 ± 4.2	41.0 ± 5.7	41.9 ± 5.6
Region 8	24.7 ± 3.4	36.9 ± 3.9	38.5 ± 3.9
District #10	25.8 ± 4.4	37.8 ± 5.0	36.4 ± 4.9
Muskegon	23.1 ± 5.4	35.6 ± 6.3	41.3 ± 6.3
Region 9	24.6 ± 3.4	38.4 ± 3.8	37.0 ± 3.7
District #2	27.8 ± 7.8	42.0 ± 8.9	30.2 ± 7.8
District #4	26.7 ± 6.8	39.5 ± 7.8	33.8 ± 7.6
Northwest Michigan	25.0 ± 6.6	35.3 ± 7.5	39.7 ± 7.5
Benzie-Leelanau	19.2 ± 9.6	46.6 ± 12.5	34.1 ± 11.2
Grand Traverse	21.1 ± 7.3	34.4 ± 8.0	44.5 ± 8.4
Region 10	26.6 ± 3.6	37.4 ± 3.9	35.9 ± 3.9
Bay	23.7 ± 7.1	38.9 ± 8.2	37.5 ± 8.1
Huron	26.4 ± 11.2	34.3 ± 13.3	39.3 ± 13.5
Saginaw	29.2 ± 5.7	36.5 ± 5.7	29.2 ± 5.7
Sanilac	22.2 ± 10.0	37.1 ± 12.4	40.7 ± 12.6
Tuscola	26.1 ± 9.5	40.7 ± 10.7	33.2 ± 10.6
Region 11	22.1 ± 3.5	37.5 ± 4.4	40.4 ± 4.5
Central Michigan	22.6 ± 4.6	36.3 ± 5.6	41.1 ± 5.8
Midland	21.1 ± 5.1	39.8 ± 6.8	39.1 ± 6.8

Table 3 Cont'd			
Geographic Area	Obese ^a	Overweight ^b	Not Overweight ^c
Michigan Total	23.9 ± 0.8	36.8 ± 0.9	39.3 ± 0.9
Region 12	24.1 ± 3.7	37.9 ± 4.3	38.0 ± 4.4
Luce-Mackinac-Alger-Schoolcraft	32.9 ± 10.9	31.4 ± 10.2	35.7 ± 11.3
Western Upper Peninsula	27.9 ± 8.3	38.8 ± 8.9	33.3 ± 8.4
Delta-Menominee	26.1 ± 8.3	38.0 ± 9.3	36.0 ± 9.2
Chippewa	22.3 ± 10.8	45.9 ± 13.3	31.7 ± 12.1
Dickinson-Iron	15.3 ± 7.8	43.6 ± 11.9	41.1 ± 11.7
Marquette	19.7 ± 8.3	32.3 ± 10.0	48.1 ± 11.1
<p>Note: Body Mass Index (BMI) is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)²]. Weight and height are self-reported.</p> <p>^a Obese was defined as the proportion of respondents whose BMI ≥ 30.0.</p> <p>^b Overweight was defined as the proportion of respondents whose BMI ≥ 25.0 and < 30.0.</p> <p>^c Not overweight was defined as the proportion of respondents whose BMI was < 25.0.</p> <p>^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.</p>			

Table 4: Leisure-time Physical Activity by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% \pm 95% Confidence Intervals)	
Geographic Area	No Activity^a
Michigan Total	23.5 \pm 0.7
Region 1	23.5 \pm 1.2
Livingston	17.7 \pm 5.3
Macomb	23.2 \pm 2.9
Monroe	22.4 \pm 6.5
Oakland	18.6 \pm 2.1
St. Clair	20.3 \pm 5.0
Washtenaw	16.0 \pm 3.5
City of Detroit	33.1 \pm 3.3
Wayne exc. Detroit	24.3 \pm 2.5
Region 2	27.2 \pm 3.1
Genesee	26.6 \pm 3.7
Lapeer	27.0 \pm 7.9
Shiawassee	30.5 \pm 8.3
Region 3	24.2 \pm 4.4
Jackson	20.5 \pm 5.2
Lenawee	29.2 \pm 7.3
Region 4	21.0 \pm 2.8
Barry-Eaton	19.1 \pm 5.2
Mid-Michigan ^b	23.5 \pm 4.8
Ingham	21.6 \pm 4.1
Region 5	23.6 \pm 3.0
Branch-Hillsdale-St. Joseph	23.0 \pm 5.4
Calhoun	28.3 \pm 6.1
Kalamazoo	21.1 \pm 4.5

Table 4 Cont'd	
Geographic Area	No Activity^a
Michigan Total	23.5 ± 0.7
Region 6	24.9 ± 4.2
Van Buren-Cass	24.0 ± 6.2
Berrien	25.6 ± 5.8
Region 7	20.7 ± 1.9
Allegan	22.3 ± 6.1
Ionia	29.5 ± 9.5
Kent	20.2 ± 2.4
Mid-Michigan ^b	23.5 ± 4.8
Ottawa	16.8 ± 4.2
Region 8	25.3 ± 3.4
District #10	25.8 ± 4.3
Muskegon	24.6 ± 5.5
Region 9	24.3 ± 3.3
District #2	28.1 ± 8.1
District #4	27.0 ± 6.8
Northwest Michigan	24.2 ± 6.5
Benzie-Leelanau	18.8 ± 9.5
Grand Traverse	20.2 ± 6.9
Region 10	24.4 ± 3.4
Bay	18.6 ± 6.1
Huron	21.9 ± 10.9
Saginaw	24.9 ± 4.9
Sanilac	32.1 ± 12.1
Tuscola	27.1 ± 10.3
Region 11	24.7 ± 3.8
Central Michigan	27.9 ± 5.2
Midland	18.4 ± 4.7

Table 4 Cont'd	
Geographic Area	No Activity^a
Michigan Total	23.5 ± 0.7
Region 12	24.2 ± 3.6
Luce-Mackinac-Alger-Schoolcraft	27.4 ± 10.0
Western Upper Peninsula	22.1 ± 7.5
Delta-Menominee	28.3 ± 8.4
Chippewa	18.8 ± 9.3
Dickinson-Iron	26.2 ± 9.6
Marquette	21.2 ± 8.6
^a Proportion of respondents who reported that they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 5: Fruit & Vegetable Consumption by Community Health Assessment Region & Local Health Department Michigan BRFS 1998, 2000, 2002 (% \pm 95% Confidence Intervals)	
Geographic Area	<5 times/day^a
Michigan Total	76.4 \pm 0.9
Region 1	75.9 \pm 1.5
Livingston	71.6 \pm 8.3
Macomb	77.8 \pm 3.6
Monroe	80.6 \pm 7.5
Oakland	75.4 \pm 3.0
St. Clair	76.2 \pm 7.1
Washtenaw	70.5 \pm 5.6
City of Detroit	77.3 \pm 3.9
Wayne exc. Detroit	76.5 \pm 3.1
Region 2	77.3 \pm 3.9
Genesee	75.5 \pm 4.7
Lapeer	82.7 \pm 9.2
Shiawassee	81.7 \pm 9.2
Region 3	75.7 \pm 5.9
Jackson	75.6 \pm 7.5
Lenawee	75.8 \pm 9.4
Region 4	79.1 \pm 3.5
Barry-Eaton	78.8 \pm 6.8
Mid-Michigan ^b	82.9 \pm 5.7
Ingham	78.8 \pm 5.0
Region 5	76.9 \pm 3.9
Branch-Hillsdale-St. Joseph	81.7 \pm 6.3
Calhoun	74.2 \pm 7.6
Kalamazoo	75.2 \pm 6.4

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Table 5 Cont'd	
Geographic Area	<5 times/day^a
Michigan Total	76.4 ± 0.9
Region 6	76.3 ± 5.3
Van Buren-Cass	78.9 ± 7.3
Berrien	74.2 ± 7.5
Region 7	77.5 ± 2.4
Allegan	77.0 ± 7.6
Ionia	84.8 ± 8.5
Kent	76.2 ± 3.0
Mid-Michigan ^b	82.9 ± 5.7
Ottawa	75.7 ± 5.8
Region 8	73.8 ± 4.6
District #10	70.2 ± 6.0
Muskegon	78.9 ± 7.2
Region 9	77.2 ± 4.0
District #2	74.3 ± 10.3
District #4	81.4 ± 7.6
Northwest Michigan	79.8 ± 7.1
Benzie-Leelanau ^c	—
Grand Traverse	75.3 ± 8.7
Region 10	81.7 ± 3.6
Bay	85.1 ± 6.5
Huron ^c	—
Saginaw	81.6 ± 5.7
Sanilac ^c	—
Tuscola	83.4 ± 8.7
Region 11	74.1 ± 4.9
Central Michigan	73.4 ± 6.6
Midland	75.6 ± 6.1

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Table 5 Cont'd	
Geographic Area	<5 times/day ^a
Michigan Total	76.4 ± 0.9
Region 12	70.8 ± 5.1
Luce-Mackinac-Alger-Schoolcraft ^c	—
Western Upper Peninsula	70.6 ± 10.4
Delta-Menominee	75.7 ± 10.4
Chippewa ^c	—
Dickinson-Iron	70.8 ± 13.3
Marquette	63.4 ± 13.2
^a Proportion of respondents whose total reported consumption of fruits (including juice) and vegetables was less than 5 times per day. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)	

Table 6: High Blood Pressure by Community Health Assessment Region & Local Health Department	
Michigan BRFS 1997, 1999, 2001 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Told High Blood Pressure^a
Michigan Total	25.5 \pm 1.0
Region 1	25.9 \pm 1.5
Livingston	15.8 \pm 6.7
Macomb	26.0 \pm 3.7
Monroe	25.9 \pm 9.1
Oakland	24.5 \pm 3.0
St. Clair	25.4 \pm 7.3
Washtenaw	17.7 \pm 4.7
City of Detroit	32.5 \pm 4.2
Wayne exc. Detroit	25.0 \pm 3.3
Region 2	26.3 \pm 3.9
Genesee	25.0 \pm 4.6
Lapeer	30.8 \pm 10.9
Shiawassee	27.8 \pm 10.0
Region 3	25.2 \pm 6.0
Jackson	25.4 \pm 8.0
Lenawee	24.9 \pm 9.0
Region 4	23.9 \pm 3.8
Barry-Eaton	22.8 \pm 7.2
Mid-Michigan ^b	29.9 \pm 7.2
Ingham	24.1 \pm 5.5
Region 5	26.9 \pm 4.1
Branch-Hillsdale-St. Joseph	30.2 \pm 7.7
Calhoun	30.4 \pm 8.5
Kalamazoo	22.7 \pm 5.8

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Table 6 Cont'd	
Geographic Area	Ever Told High Blood Pressure^a
Michigan Total	25.5 ± 1.0
Region 6	26.2 ± 5.8
Van Buren-Cass	17.2 ± 6.9
Berrien	33.3 ± 8.5
Region 7	22.5 ± 2.8
Allegan	26.3 ± 8.7
Ionia	22.3 ± 11.1
Kent	19.9 ± 3.6
Mid-Michigan ^b	29.9 ± 7.2
Ottawa	22.3 ± 6.4
Region 8	25.5 ± 4.3
District #10	28.6 ± 6.1
Muskegon	21.5 ± 5.9
Region 9	28.4 ± 4.6
District #2	27.9 ± 9.6
District #4	38.9 ± 10.3
Northwest Michigan	25.3 ± 8.6
Benzie-Leelanau ^c	—
Grand Traverse	18.4 ± 9.2
Region 10	27.4 ± 4.5
Bay	29.1 ± 9.2
Huron ^c	—
Saginaw	25.5 ± 6.5
Sanilac ^c	—
Tuscola	23.4 ± 11.9
Region 11	24.7 ± 5.1
Central Michigan	26.8 ± 6.5
Midland	20.6 ± 8.3

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Table 6 Cont'd	
Geographic Area	Ever Told High Blood Pressure ^a
Michigan Total	25.5 ± 1.0
Region 12	23.5 ± 4.8
Luce-Mackinac-Alger-Schoolcraft	32.1 ± 13.7
Western Upper Peninsula	23.9 ± 9.8
Delta-Menominee	23.2 ± 10.7
Chippewa ^c	—
Dickinson-Iron ^c	—
Marquette	16.4 ± 10.0
^a Proportion of respondents who said that they had ever been told by a health professional that their blood pressure was high. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)	

Table 7: Cholesterol by Community Health Assessment Region & Local Health Department Michigan BRFS 1997, 1999, 2001 (% \pm 95% Confidence Intervals)			
Geographic Area	Cholesterol Ever Checked^a	Ever Told Cholesterol Was High^b	Cholesterol Checked Within Past 5 Years^c
Michigan Total	77.6 \pm 1.0	32.1 \pm 1.2	72.7 \pm 1.1
Region 1	79.1 \pm 1.5	31.5 \pm 1.8	74.9 \pm 1.6
Livingston	75.7 \pm 8.7	28.9 \pm 9.5	70.1 \pm 9.0
Macomb	81.9 \pm 3.5	35.7 \pm 4.5	77.5 \pm 3.8
Monroe	67.7 \pm 10.5	29.0 \pm 11.0	65.1 \pm 10.6
Oakland	82.5 \pm 2.9	33.9 \pm 3.6	79.0 \pm 3.0
St. Clair	78.8 \pm 7.5	29.3 \pm 9.0	75.5 \pm 7.8
Washtenaw	79.2 \pm 5.4	24.0 \pm 6.1	68.9 \pm 6.2
City of Detroit	72.6 \pm 4.0	30.0 \pm 4.8	70.2 \pm 4.1
Wayne exc. Detroit	81.4 \pm 3.2	30.7 \pm 3.9	76.5 \pm 3.5
Region 2	77.2 \pm 4.1	36.3 \pm 5.0	72.8 \pm 4.3
Genesee	76.5 \pm 4.9	37.5 \pm 6.1	73.0 \pm 5.1
Lapeer	73.2 \pm 12.1	34.0 \pm 12.7	64.1 \pm 12.5
Shiawassee	84.8 \pm 8.3	33.0 \pm 11.9	80.3 \pm 9.4
Region 3	78.8 \pm 5.9	39.1 \pm 7.6	72.1 \pm 6.4
Jackson	77.3 \pm 8.2	37.4 \pm 10.2	69.7 \pm 8.8
Lenawee	80.7 \pm 8.4	41.0 \pm 11.5	75.0 \pm 9.3
Region 4	76.9 \pm 4.0	32.4 \pm 4.8	72.0 \pm 4.2
Barry-Eaton	76.7 \pm 7.6	38.3 \pm 9.7	70.4 \pm 8.0
Mid-Michigan ^d	78.0 \pm 7.4	38.3 \pm 8.7	74.6 \pm 7.7
Ingham	76.9 \pm 5.5	25.7 \pm 6.1	72.2 \pm 5.9
Region 5	79.2 \pm 3.9	27.5 \pm 4.7	72.6 \pm 4.3
Branch-Hillsdale-St. Joseph	74.6 \pm 7.7	29.9 \pm 8.7	67.2 \pm 8.2
Calhoun	84.8 \pm 6.4	29.7 \pm 9.3	79.3 \pm 7.5
Kalamazoo	79.4 \pm 5.8	24.6 \pm 6.9	72.8 \pm 6.4

Any questions concerning these data, please contact Michelle L. Cook at MDCH
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Table 7 Cont'd			
Geographic Area	Cholesterol Ever Checked ^a	Ever Told Cholesterol Was High ^b	Cholesterol Checked Within Past 5 Years ^c
Michigan Total	77.6 ± 1.0	32.1 ± 1.2	72.7 ± 1.1
Region 6	74.4 ± 6.1	29.7 ± 6.9	69.4 ± 6.4
Van Buren-Cass	72.1 ± 9.8	36.0 ± 11.2	69.8 ± 10.0
Berrien	76.1 ± 7.7	25.0 ± 8.6	69.0 ± 8.4
Region 7	78.8 ± 3.0	29.0 ± 3.4	72.1 ± 3.3
Allegan	78.3 ± 8.8	27.7 ± 10.2	68.9 ± 9.7
Ionia	80.2 ± 11.1	— ^e	66.6 ± 13.3
Kent	78.1 ± 4.1	29.9 ± 4.6	71.6 ± 4.4
Mid-Michigan ^d	78.0 ± 7.4	38.3 ± 8.7	74.6 ± 7.7
Ottawa	80.3 ± 6.5	27.1 ± 7.5	75.4 ± 7.0
Region 8	74.0 ± 4.7	33.0 ± 5.4	69.2 ± 4.9
District #10	75.8 ± 6.1	37.4 ± 7.3	72.9 ± 6.3
Muskegon	71.8 ± 7.4	27.0 ± 7.6	64.4 ± 7.7
Region 9	76.8 ± 4.7	33.6 ± 5.5	71.5 ± 5.1
District #2	78.1 ± 10.7	46.5 ± 12.7	74.8 ± 11.2
District #4	71.8 ± 10.0	38.8 ± 11.9	67.0 ± 10.3
Northwest Michigan	81.7 ± 8.1	29.5 ± 10.0	75.9 ± 8.7
Benzie-Leelanau ^e	—	—	—
Grand Traverse	73.9 ± 11.6	21.1 ± 10.9	66.8 ± 12.4
Region 10	73.6 ± 4.9	36.5 ± 5.7	68.6 ± 5.1
Bay	68.5 ± 10.4	36.1 ± 11.6	63.6 ± 10.6
Huron ^e	—	—	—
Saginaw	77.4 ± 7.1	39.7 ± 8.4	74.1 ± 7.4
Sanilac ^e	—	—	—
Tuscola	73.0 ± 13.2	— ^e	67.3 ± 13.8
Region 11	72.8 ± 6.0	37.1 ± 6.8	69.6 ± 6.1
Central Michigan	72.0 ± 7.3	40.0 ± 8.5	67.8 ± 7.5
Midland	74.4 ± 10.4	31.4 ± 11.1	73.0 ± 10.4

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Table 7 Cont'd			
Geographic Area	Cholesterol Ever Checked ^a	Ever Told Cholesterol Was High ^b	Cholesterol Checked Within Past 5 Years ^c
Michigan Total	77.6 ± 1.0	32.1 ± 1.2	72.7 ± 1.1
Region 12	73.3 ± 5.4	34.2 ± 6.2	66.7 ± 5.6
Luce-Mackinac-Alger-Schoolcraft	81.7 ± 12.0	— ^e	74.7 ± 13.1
Western Upper Peninsula	63.3 ± 12.0	44.6 ± 14.5	61.3 ± 12.1
Delta-Menominee	76.3 ± 11.2	29.2 ± 13.6	71.2 ± 11.9
Chippewa ^e	—	—	—
Dickinson-Iron ^e	—	—	—
Marquette	78.6 ± 12.0	29.8 ± 12.9	67.3 ± 13.0
^a Respondents who reported ever having had their cholesterol checked. ^b Among respondents who reported having had their cholesterol checked, the proportion who had been told that their cholesterol was high. ^c Proportion of respondents who reported having had their cholesterol checked within the last five years. ^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^e Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)			

Table 8: Current Smoking Status by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Current Smoker^a
Michigan Total	25.3 \pm 0.8
Region 1	25.2 \pm 1.2
Livingston	21.9 \pm 5.8
Macomb	29.0 \pm 3.2
Monroe	27.7 \pm 6.9
Oakland	21.8 \pm 2.4
St. Clair	29.8 \pm 6.1
Washtenaw	17.3 \pm 3.7
City of Detroit	29.1 \pm 3.2
Wayne exc. Detroit	25.7 \pm 2.6
Region 2	26.9 \pm 3.2
Genesee	27.1 \pm 3.9
Lapeer	28.9 \pm 8.4
Shiawassee	24.0 \pm 8.1
Region 3	25.7 \pm 4.5
Jackson	27.7 \pm 5.9
Lenawee	23.1 \pm 7.1
Region 4	23.8 \pm 3.0
Barry-Eaton	26.1 \pm 5.9
Mid-Michigan ^b	23.6 \pm 5.0
Ingham	23.3 \pm 4.2
Region 5	24.1 \pm 3.1
Branch-Hillsdale-St. Joseph	29.4 \pm 6.0
Calhoun	28.2 \pm 6.4
Kalamazoo	17.8 \pm 4.1

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Table 8 Cont'd	
Geographic Area	Current Smoker^a
Michigan Total	25.3 ± 0.8
Region 6	24.2 ± 4.5
Van Buren-Cass	26.0 ± 6.6
Berrien	22.9 ± 6.1
Region 7	23.2 ± 2.1
Allegan	28.9 ± 6.8
Ionia	27.4 ± 8.9
Kent	23.4 ± 2.6
Mid-Michigan ^b	23.6 ± 5.0
Ottawa	17.4 ± 4.5
Region 8	27.4 ± 3.5
District #10	23.3 ± 4.2
Muskegon	33.1 ± 6.0
Region 9	28.6 ± 3.5
District #2	32.7 ± 8.0
District #4	29.2 ± 7.3
Northwest Michigan	25.7 ± 6.8
Benzie-Leelanau	13.4 ± 7.8
Grand Traverse	33.8 ± 8.0
Region 10	27.7 ± 3.6
Bay	31.1 ± 7.9
Huron	30.7 ± 12.6
Saginaw	23.5 ± 4.9
Sanilac	33.2 ± 12.6
Tuscola	30.3 ± 9.7
Region 11	26.1 ± 4.0
Central Michigan	26.3 ± 5.1
Midland	25.6 ± 6.2

Table 8 Cont'd	
Geographic Area	Current Smoker^a
Michigan Total	25.3 ± 0.8
Region 12	23.9 ± 3.6
Luce-Mackinac-Alger-Schoolcraft	38.2 ± 11.0
Western Upper Peninsula	23.5 ± 7.6
Delta-Menominee	24.6 ± 8.3
Chippewa	19.1 ± 9.3
Dickinson-Iron	19.5 ± 8.0
Marquette	19.3 ± 7.8
^a Proportion of respondents who reported that they had ever smoked at least 100 cigarettes in their life and that they smoke cigarettes now.	
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 9: Diabetes by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Told Have Diabetes^a
Michigan Total	7.2 \pm 0.4
Region 1	7.4 \pm 0.7
Livingston	5.0 \pm 2.9
Macomb	5.7 \pm 1.4
Monroe	4.0 \pm 2.5
Oakland	7.2 \pm 1.4
St. Clair	9.2 \pm 3.6
Washtenaw	5.3 \pm 2.0
City of Detroit	10.9 \pm 2.1
Wayne exc. Detroit	7.0 \pm 1.4
Region 2	7.2 \pm 1.8
Genesee	7.3 \pm 2.2
Lapeer	6.7 \pm 4.7
Shiawassee	7.0 \pm 4.5
Region 3	9.2 \pm 3.2
Jackson	9.8 \pm 4.0
Lenawee	8.3 \pm 5.4
Region 4	6.1 \pm 1.5
Barry-Eaton	3.6 \pm 2.1
Mid-Michigan ^b	8.2 \pm 3.3
Ingham	6.6 \pm 2.3
Region 5	7.4 \pm 1.8
Branch-Hillsdale-St. Joseph	7.8 \pm 3.1
Calhoun	7.6 \pm 3.4
Kalamazoo	7.0 \pm 3.0

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Table 9 Cont'd	
Geographic Area	Ever Told Have Diabetes^a
Michigan Total	7.2 ± 0.4
Region 6	6.0 ± 2.1
Van Buren-Cass	6.6 ± 3.4
Berrien	5.5 ± 2.6
Region 7	6.0 ± 1.1
Allegan	6.5 ± 3.9
Ionia	8.3 ± 6.5
Kent	5.8 ± 1.3
Mid-Michigan ^b	8.2 ± 3.3
Ottawa	4.6 ± 2.3
Region 8	7.2 ± 1.8
District #10	7.4 ± 2.4
Muskegon	7.0 ± 2.8
Region 9	7.4 ± 1.9
District #2	9.5 ± 4.6
District #4	9.7 ± 4.6
Northwest Michigan	6.5 ± 3.3
Benzie-Leelanau	11.9 ± 7.9
Grand Traverse	2.0 ± 2.5 ^c
Region 10	7.3 ± 1.9
Bay	7.5 ± 4.1
Huron	5.2 ± 4.8
Saginaw	9.7 ± 3.2
Sanilac	4.1 ± 4.8 ^c
Tuscola	3.1 ± 3.0
Region 11	8.8 ± 2.3
Central Michigan	9.6 ± 3.0
Midland	7.1 ± 3.3

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Table 9 Cont'd	
Geographic Area	Ever Told Have Diabetes ^a
Michigan Total	7.2 ± 0.4
Region 12	7.1 ± 2.1
Luce-Mackinac-Alger-Schoolcraft	10.0 ± 6.5
Western Upper Peninsula	7.3 ± 4.6
Delta-Menominee	7.2 ± 4.6
Chippewa	7.6 ± 6.8
Dickinson-Iron	4.6 ± 4.2
Marquette	6.4 ± 4.5
^a Proportion of respondents who reported that they had ever been told that they had diabetes (gestational diabetes excluded). ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^c Confidence interval includes 0.	

Table 10: Alcohol Consumption by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2002 (% ± 95% Confidence Intervals)		
Geographic Area	Heavy Drinking^a	Binge Drinking^b
Michigan Total	5.6 ± 0.5	17.8 ± 0.9
Region 1 Total	5.4 ± 0.8	17.8 ± 1.3
Livingston	4.0 ± 3.5	18.4 ± 7.1
Macomb	7.0 ± 2.5	22.1 ± 3.7
Monroe	5.0 ± 3.9	19.7 ± 8.1
Oakland	5.2 ± 1.5	16.9 ± 2.6
St. Clair	8.0 ± 4.5	16.0 ± 6.1
Washtenaw	6.0 ± 3.1	13.9 ± 4.4
City of Detroit	3.9 ± 1.6	13.7 ± 3.0
Wayne exc. Detroit	5.8 ± 1.7	20.3 ± 2.9
Region 2 Total	3.6 ± 1.9	12.9 ± 3.1
Genesee	4.2 ± 2.4	13.9 ± 3.8
Lapeer	3.7 ± 5.0 ^c	12.6 ± 7.7
Shiawassee	0 ^d	7.6 ± 5.4
Region 3 Total	4.2 ± 2.7	17.6 ± 5.1
Jackson	3.7 ± 2.9	17.6 ± 6.5
Lenawee	4.9 ± 5.0 ^c	17.7 ± 8.3
Region 4 Total	6.1 ± 2.3	19.6 ± 3.7
Barry-Eaton	4.0 ± 3.3	18.9 ± 6.6
Mid-Michigan ^e	6.2 ± 3.6	18.4 ± 6.0
Ingham	6.3 ± 3.6	20.3 ± 5.6
Region 5 Total	6.9 ± 2.4	16.0 ± 3.6
Branch-Hillsdale-St. Joseph	6.9 ± 3.9	17.8 ± 6.6
Calhoun	6.8 ± 4.3	11.3 ± 5.4
Kalamazoo	7.0 ± 4.1	17.5 ± 6.0

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Table 10 Cont'd		
Geographic Area	Heavy Drinking ^a	Binge Drinking ^b
Michigan Total	5.6 ± 0.5	17.8 ± 0.9
Region 6 Total	5.9 ± 3.2	15.4 ± 4.8
Van Buren-Cass	8.8 ± 5.7	20.6 ± 8.1
Berrien	3.8 ± 3.6	11.4 ± 5.5
Region 7 Total	4.4 ± 1.2	17.4 ± 2.2
Allegan	2.7 ± 2.7 ^c	14.5 ± 6.8
Ionia	6.5 ± 6.1	17.1 ± 8.9
Kent	5.8 ± 1.8	19.6 ± 2.9
Mid-Michigan ^e	6.2 ± 3.6	18.4 ± 6.0
Ottawa	1.8 ± 1.8 ^c	13.3 ± 5.2
Region 8 Total	6.4 ± 2.7	19.1 ± 4.0
District #10	6.2 ± 3.1	18.0 ± 5.2
Muskegon	6.6 ± 4.8	20.7 ± 6.3
Region 9 Total	6.4 ± 2.6	18.3 ± 3.9
District #2	7.9 ± 5.7	21.0 ± 8.6
District #4	7.6 ± 6.0	17.2 ± 8.2
Northwest Michigan	6.7 ± 5.7	20.2 ± 7.9
Benzie-Leelanau	5.3 ± 6.3 ^c	15.1 ± 10.9
Grand Traverse	3.4 ± 3.9 ^c	15.4 ± 7.7
Region 10 Total	7.6 ± 2.9	19.8 ± 4.1
Bay	11.4 ± 7.3	27.6 ± 9.7
Huron ^f	—	—
Saginaw	6.1 ± 3.2	15.0 ± 5.1
Sanilac	8.2 ± 8.2 ^c	21.6 ± 12.2
Tuscola	8.8 ± 10.9 ^c	19.9 ± 12.1
Region 11 Total	6.1 ± 3.0	21.2 ± 4.7
Central Michigan	7.6 ± 4.4	21.4 ± 6.3
Midland	3.6 ± 2.0	20.8 ± 6.8

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Table 10 Cont'd		
Geographic Area	Heavy Drinking ^a	Binge Drinking ^b
Michigan Total	5.6 ± 0.5	17.8 ± 0.9
Region 12 Total	7.5 ± 2.7	20.7 ± 4.3
Luce-Mackinac-Alger-Schoolcraft	3.4 ± 4.2 ^c	12.7 ± 9.5
Western Upper Peninsula	8.8 ± 6.6	23.9 ± 10.0
Delta-Menominee	9.3 ± 6.5	20.6 ± 9.3
Chippewa ^f	—	—
Dickinson-Iron	3.6 ± 4.2 ^c	13.8 ± 8.3
Marquette	10.7 ± 7.7	28.8 ± 11.9
^a Proportion of respondents who said that they consumed 60 or more alcoholic drinks in the past month. ^b Proportion of respondents who reported consuming five or more drinks on one occasion at least once in the past month. ^c Confidence interval includes 0. ^d Out 94 individuals, nobody reported consuming 60 or more alcoholic drinks in the past month. ^e The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^f Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)		

Table 11: Immunizations Among Adults Aged 65 Years and Older by Community Health Assessment Region Michigan BRFS 1999, 2001, 2002 (% \pm 95% Confidence Intervals)		
Geographic Area	No Flu Shot in Past Year^a	Never Had a Pneumonia Shot^b
Michigan Total	33.9 \pm 2.3	39.3 \pm 2.4
Region 1	36.4 \pm 3.8	40.7 \pm 3.9
Region 2	40.2 \pm 10.7	47.2 \pm 10.9
Region 3	25.0 \pm 10.9	39.7 \pm 12.4
Region 4	30.2 \pm 9.7	39.0 \pm 10.6
Region 5	25.2 \pm 7.7	32.7 \pm 8.5
Region 6	28.6 \pm 13.2	37.7 \pm 14.1
Region 7	31.0 \pm 5.8	37.6 \pm 6.3
Region 8	36.3 \pm 10.0	40.5 \pm 10.2
Region 9	31.6 \pm 8.1	34.0 \pm 8.4
Region 10	38.4 \pm 10.1	47.6 \pm 10.4
Region 11	29.0 \pm 9.9	31.1 \pm 10.0
Region 12	41.2 \pm 10.9	38.3 \pm 10.8
Note: Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50) ^a Proportion of respondents 65 years and older who said that they had not had a flu shot in the past year. ^b Proportion of respondents 65 years and older who reported that had never had a pneumonia shot.		

Table 12: HIV Testing by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2002 (% ± 95% Confidence Intervals)	
Geographic Area	Ever Had an HIV Test^a
Michigan Total	45.5 ± 1.0
Region 1	49.3 ± 1.5
Livingston	41.1 ± 7.5
Macomb	45.1 ± 3.7
Monroe	43.8 ± 8.0
Oakland	45.8 ± 3.0
St. Clair	42.6 ± 7.2
Washtenaw	46.9 ± 5.3
City of Detroit	63.7 ± 3.6
Wayne exc. Detroit	47.9 ± 3.2
Region 2	43.3 ± 3.9
Genesee	44.8 ± 4.6
Lapeer	42.3 ± 10.0
Shiawassee	36.0 ± 9.7
Region 3	41.6 ± 5.9
Jackson	45.8 ± 7.9
Lenawee	36.7 ± 8.8
Region 4	45.0 ± 3.8
Barry-Eaton	46.8 ± 7.4
Mid-Michigan ^b	42.9 ± 6.5
Ingham	44.6 ± 5.3
Region 5	44.5 ± 4.0
Branch-Hillsdale-St. Joseph	41.4 ± 7.1
Calhoun	48.7 ± 7.7
Kalamazoo	44.1 ± 6.1

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Table 12 Cont'd	
Geographic Area	Ever Had an HIV Test^a
Michigan Total	45.5 ± 1.0
Region 6	49.7 ± 5.7
Van Buren-Cass	56.2 ± 8.2
Berrien	44.5 ± 7.8
Region 7	41.6 ± 2.6
Allegan	43.7 ± 8.2
Ionia	39.2 ± 10.5
Kent	42.9 ± 3.3
Mid-Michigan ^b	42.9 ± 6.5
Ottawa	37.8 ± 6.0
Region 8	43.7 ± 4.4
District #10	37.6 ± 5.6
Muskegon	51.0 ± 6.9
Region 9	45.0 ± 4.4
District #2	40.3 ± 10.2
District #4	34.5 ± 8.6
Northwest Michigan	50.7 ± 8.8
Benzie-Leelanau	49.5 ± 13.5
Grand Traverse	50.7 ± 9.1
Region 10	38.3 ± 4.3
Bay	40.0 ± 8.8
Huron	22.2 ± 11.9
Saginaw	41.5 ± 6.6
Sanilac	40.7 ± 13.9
Tuscola	34.8 ± 11.0
Region 11	36.2 ± 4.9
Central Michigan	36.7 ± 6.5
Midland	35.1 ± 7.1

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Table 12 Cont'd	
Geographic Area	Ever Had an HIV Test^a
Michigan Total	45.5 ± 1.0
Region 12	40.8 ± 4.8
Luce-Mackinac-Alger-Schoolcraft	48.3 ± 13.2
Western Upper Peninsula	43.8 ± 10.6
Delta-Menominee	36.7 ± 10.0
Chippewa	55.3 ± 14.1
Dickinson-Iron	42.3 ± 13.3
Marquette	28.5 ± 10.1
^a Proportion of respondents who reported that they had ever been tested for HIV, apart from tests that were part of a blood donation. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 13: Asthma by Community Health Assessment Region & Local Health Department Michigan BRFS 2000-2002 (% ± 95% Confidence Intervals)		
Geographic Area	Ever Told Have Asthma^a	Still Have Asthma^b
Michigan Total	12.1 ± 0.7	8.5 ± 0.6
Region 1	13.0 ± 1.2	9.0 ± 1.0
Livingston	10.6 ± 4.9	8.3 ± 4.4
Macomb	12.9 ± 2.9	7.7 ± 2.2
Monroe	13.2 ± 6.3	12.3 ± 6.2
Oakland	13.8 ± 2.4	10.0 ± 2.1
St. Clair	13.7 ± 6.4	9.0 ± 5.6
Washtenaw	15.4 ± 4.5	11.3 ± 4.0
City of Detroit	14.4 ± 3.0	9.2 ± 2.4
Wayne exc. Detroit	10.7 ± 2.3	7.4 ± 1.9
Region 2	14.6 ± 3.2	10.0 ± 2.7
Genesee	15.2 ± 3.8	11.0 ± 3.4
Lapeer	16.6 ± 9.7	8.8 ± 6.8
Shiawassee	9.5 ± 5.9	6.4 ± 5.0
Region 3	12.5 ± 4.3	11.4 ± 4.2
Jackson	12.9 ± 5.4	11.6 ± 5.3
Lenawee	12.0 ± 6.9	11.1 ± 6.7
Region 4	12.8 ± 2.9	9.0 ± 2.5
Barry-Eaton	10.3 ± 5.3	7.3 ± 4.6
Mid-Michigan ^c	8.6 ± 3.7	6.7 ± 3.3
Ingham	16.7 ± 4.6	11.8 ± 4.0
Region 5	10.9 ± 2.7	8.1 ± 2.3
Branch-Hillsdale-St. Joseph	10.2 ± 4.5	8.2 ± 4.2
Calhoun	10.6 ± 4.5	7.7 ± 3.7
Kalamazoo	11.6 ± 4.5	8.3 ± 3.8

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Table 13 Cont'd		
Geographic Area	Ever Told Have Asthma^a	Still Have Asthma^b
Michigan Total	12.1 ± 0.7	8.5 ± 0.6
Region 6	11.1 ± 3.8	6.6 ± 2.8
Van Buren-Cass	12.7 ± 6.5	6.1 ± 4.3
Berrien	9.8 ± 4.4	7.0 ± 3.6
Region 7	9.3 ± 1.6	6.6 ± 1.4
Allegan	8.4 ± 4.8	6.5 ± 4.4
Ionia	10.9 ± 9.1	8.6 ± 8.8 ^d
Kent	8.7 ± 1.8	5.7 ± 1.4
Mid-Michigan ^c	8.6 ± 3.7	6.7 ± 3.3
Ottawa	10.2 ± 4.1	7.2 ± 3.3
Region 8	9.2 ± 2.4	6.2 ± 2.0
District #10	10.6 ± 3.3	7.5 ± 2.8
Muskegon	7.1 ± 3.4	4.3 ± 2.5
Region 9	13.3 ± 3.3	9.5 ± 2.7
District #2	22.1 ± 9.7	13.6 ± 7.4
District #4	13.4 ± 6.4	10.8 ± 5.6
Northwest Michigan	13.3 ± 5.9	9.7 ± 5.1
Benzie-Leelanau	7.4 ± 7.0	5.7 ± 6.3 ^d
Grand Traverse	7.2 ± 5.1	5.6 ± 4.5
Region 10	12.0 ± 3.2	7.3 ± 2.6
Bay	16.1 ± 6.7	10.6 ± 5.6
Huron	13.7 ± 11.5	10.0 ± 10.8 ^d
Saginaw	7.4 ± 3.6	3.6 ± 2.4
Sanilac	9.7 ± 9.6	5.0 ± 7.4 ^d
Tuscola	21.6 ± 11.9	14.2 ± 10.9
Region 11	12.0 ± 3.3	9.1 ± 3.0
Central Michigan	11.0 ± 4.3	8.5 ± 3.8
Midland	14.2 ± 5.2	10.4 ± 4.7

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Table 13 Cont'd		
Geographic Area	Ever Told Have Asthma ^a	Still Have Asthma ^b
Michigan Total	12.1 ± 0.7	8.5 ± 0.6
Region 12	11.8 ± 3.3	8.4 ± 2.7
Luce-Mackinac-Alger-Schoolcraft	20.8 ± 11.3	13.6 ± 9.0
Western Upper Peninsula	8.1 ± 5.4	6.9 ± 5.1
Delta-Menominee	8.8 ± 6.0	7.9 ± 5.8
Chippewa ^e	—	—
Dickinson-Iron	7.9 ± 6.7	4.3 ± 5.2 ^d
Marquette	15.6 ± 9.0	8.6 ± 5.9
^a Proportion of respondents who reported that they had ever been told they have asthma. ^b Proportion of respondents who reported that they still have asthma. ^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^d Confidence interval includes 0. ^e Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)		

Table 14: Colorectal Cancer Screening Among Adults Aged 50 Years and Older by Community Health Assessment Region & Local Health Department Michigan BRFS 1999, 2001, 2002 (% ± 95% Confidence Intervals)		
Geographic Area	Ever Had a Blood Stool Test^a	Had a Blood Stool Test in Past 2 Years^b
Michigan Total	52.3 ± 1.6	35.2 ± 1.5
Region 1	47.5 ± 2.6	31.9 ± 2.5
Livingston	56.6 ± 14.0	43.9 ± 14.1
Macomb	47.3 ± 6.4	31.6 ± 6.1
Monroe ^c	—	—
Oakland	52.7 ± 5.0	32.7 ± 4.7
St. Clair	44.5 ± 12.4	18.6 ± 9.3
Washtenaw	47.9 ± 9.8	36.7 ± 9.3
City of Detroit	43.5 ± 6.7	33.7 ± 6.5
Wayne exc. Detroit	46.5 ± 5.5	31.6 ± 5.1
Region 2	49.3 ± 6.6	29.2 ± 5.9
Genesee	51.8 ± 8.3	31.1 ± 7.4
Lapeer ^c	—	—
Shiawassee	39.4 ± 13.9	23.2 ± 11.8
Region 3	53.6 ± 9.2	30.5 ± 8.3
Jackson	59.9 ± 11.4	35.5 ± 10.9
Lenawee	44.9 ± 14.9	23.6 ± 12.7
Region 4	61.7 ± 6.5	45.0 ± 6.7
Barry-Eaton	62.1 ± 11.5	49.7 ± 11.8
Mid-Michigan ^d	60.2 ± 11.1	40.7 ± 11.3
Ingham	60.4 ± 9.5	42.8 ± 9.7
Region 5	50.8 ± 6.3	38.1 ± 6.3
Branch-Hillsdale-St. Joseph	45.9 ± 10.6	32.7 ± 9.9
Calhoun	46.9 ± 12.0	33.0 ± 11.3
Kalamazoo	58.0 ± 9.9	46.6 ± 10.5

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Table 14 Cont'd		
Geographic Area	Ever Had a Blood Stool Test ^a	Had a Blood Stool Test in Past 2 Years ^b
Michigan Total	52.3 ± 1.6	35.2 ± 1.5
Region 6	49.4 ± 9.0	35.3 ± 8.7
Van Buren-Cass	54.4 ± 13.4	38.7 ± 13.2
Berrien	45.8 ± 12.0	32.8 ± 11.4
Region 7	62.3 ± 4.3	43.8 ± 4.4
Allegan	65.8 ± 12.7	44.2 ± 13.2
Ionia ^c	—	—
Kent	61.3 ± 5.1	44.2 ± 5.4
Mid-Michigan ^d	60.2 ± 11.1	40.7 ± 11.3
Ottawa	65.5 ± 10.5	45.6 ± 10.8
Region 8	53.8 ± 6.7	34.7 ± 6.4
District #10	52.3 ± 8.1	36.0 ± 7.8
Muskegon	56.6 ± 12.0	32.2 ± 11.0
Region 9	57.6 ± 6.2	38.2 ± 6.1
District #2	56.1 ± 12.5	34.7 ± 12.1
District #4	52.9 ± 12.5	40.2 ± 12.2
Northwest Michigan	60.7 ± 11.8	41.7 ± 11.9
Benzie-Leelanau ^c	—	—
Grand Traverse ^c	—	—
Region 10^e	54.3 ± 6.9	35.4 ± 6.5
Region 11	55.8 ± 7.1	36.4 ± 6.9
Central Michigan	54.2 ± 9.5	34.9 ± 9.1
Midland	59.2 ± 9.8	39.5 ± 9.9
Region 12^e	52.2 ± 7.3	33.2 ± 7.1
^a Proportion of respondents aged 50 years and older who said that they had ever used a blood stool test using a home kit.		
^b Proportion of respondents aged 50 years and older who reported that they had a blood stool test using a home kit in the last two years.		
^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)		
^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.		
^e Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50)		

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Table 15: Prostate Cancer Screening Among Men Aged 50 Years and Older by Community Health Assessment Region Michigan BRFS 1999, 2001, 2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Had a PSA Test^a
Michigan Total	74.3 \pm 2.2
Region 1	74.7 \pm 3.7
Region 2	73.6 \pm 10.1
Region 3	74.5 \pm 12.3
Region 4	74.1 \pm 8.9
Region 5	68.8 \pm 9.3
Region 6	62.5 \pm 14.3
Region 7	79.9 \pm 5.5
Region 8	72.0 \pm 8.9
Region 9	76.4 \pm 8.5
Region 10	80.3 \pm 8.2
Region 11	82.9 \pm 8.6
Region 12	61.5 \pm 10.9
Note: Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50) ^a Proportion of male respondents age 50 years and older who said that they had ever had a prostate-specific antigen (PSA) blood test.	

Table 16: Breast Cancer Screening Among Women Aged 40 Years and Older by Community Health Assessment Region Michigan BRFS 1998-2000, 2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Had Clinical Breast Exam & Mammography in Last Year^a
Michigan Total	55.2 \pm 1.7
Region 1	54.5 \pm 2.7
Region 2	60.9 \pm 6.4
Region 3	59.0 \pm 9.7
Region 4	59.3 \pm 6.7
Region 5	49.2 \pm 6.5
Region 6	49.3 \pm 9.4
Region 7	53.4 \pm 4.5
Region 8	55.2 \pm 7.5
Region 9	59.3 \pm 6.9
Region 10	56.3 \pm 7.6
Region 11	55.1 \pm 8.1
Region 12	55.2 \pm 7.6
Note: 2002 data included diagnostic tests; data from 1998-2000 excluded diagnostic tests. Note: Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50) ^a Proportion of women 40 and older who had both a clinical breast exam and mammography in the past year.	

Table 17: Cervical Cancer Screening Among Adult Women Aged 18 Years and Older by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2000, 2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Had Pap Test in Last 3 Years^a
Michigan Total	85.4 \pm 1.0
Region 1	85.4 \pm 1.5
Livingston	84.0 \pm 8.5
Macomb	86.6 \pm 3.4
Monroe	84.1 \pm 7.8
Oakland	88.4 \pm 2.8
St. Clair	81.4 \pm 7.8
Washtenaw	82.5 \pm 5.8
City of Detroit	86.9 \pm 3.4
Wayne exc. Detroit	82.5 \pm 3.7
Region 2	83.7 \pm 4.1
Genesee	84.7 \pm 4.5
Lapeer	74.6 \pm 15.6
Shiawassee	85.9 \pm 9.1
Region 3	84.3 \pm 6.2
Jackson	86.5 \pm 7.4
Lenawee	81.0 \pm 10.8
Region 4	90.0 \pm 3.3
Barry-Eaton	89.3 \pm 6.9
Mid-Michigan ^b	89.0 \pm 5.8
Ingham	89.5 \pm 4.5
Region 5	85.3 \pm 3.9
Branch-Hillsdale-St. Joseph	86.6 \pm 6.4
Calhoun	80.2 \pm 8.2
Kalamazoo	87.4 \pm 5.8

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Table 17 Cont'd	
Geographic Area	Had Pap Test in Last 3 Years^a
Michigan Total	85.4 ± 1.0
Region 6	80.7 ± 5.7
Van Buren-Cass	84.5 ± 7.5
Berrien	77.4 ± 8.5
Region 7	86.1 ± 2.5
Allegan	84.2 ± 8.8
Ionia	84.3 ± 10.7
Kent	85.5 ± 3.2
Mid-Michigan ^b	89.0 ± 5.8
Ottawa	89.6 ± 5.1
Region 8	83.4 ± 4.5
District #10	79.6 ± 6.2
Muskegon	88.4 ± 6.3
Region 9	87.2 ± 3.8
District #2	78.8 ± 11.7
District #4	90.2 ± 7.0
Northwest Michigan	83.2 ± 8.4
Benzie-Leelanau ^c	—
Grand Traverse	91.3 ± 6.4
Region 10^c	87.0 ± 4.0
Region 11	83.9 ± 4.7
Central Michigan	83.0 ± 6.2
Midland	85.8 ± 6.1
Region 12^c	83.1 ± 5.6
<p>Note: 2002 data included diagnostic tests; data from 1998-2000 excluded diagnostic tests.</p> <p>^a Proportion of all female respondents aged 18 years and older who had a Pap test within the last 3 years.</p> <p>^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.</p> <p>^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)</p>	

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